Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Identifying Chemical Reactions

*Practice Problems*

**Ms. Eggleston’s Reaction Identification Checklist:**

Follow this series of questions. When you can answer "yes" to a question, then stop!

1. Does your reaction have oxygen as one of its reactants and carbon dioxide and water as products? **COMBUSTION.**
2. Does your reaction have two (or more) chemicals combining to form one chemical? **SYNTHESIS.**
3. Does your reaction have one large compound falling apart to make several small ones? **DECOMPOSITION.**
4. Does your reaction have any compounds that contain only one element? **SINGLE DISPLACEMENT.**
5. If you haven't answered "yes" to any of the questions above, then it’s **DOUBLE REPLACEMENT.**

***Directions****: Balance the following equations and indicate the type of reaction taking place:*

1. \_\_\_\_ NaBr + \_\_\_\_ H3PO4 🡪 \_\_\_\_ Na3PO4 + \_\_\_\_ HBr

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_ Ca(OH)2 + \_\_\_\_ Al2(SO4)3 🡪 \_\_\_\_ CaSO4 + \_\_\_\_ Al(OH)3

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_ Mg + \_\_\_\_ Fe2O3 🡪 \_\_\_\_ Fe + \_\_\_\_ MgO

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_ C2H4 + \_\_\_\_ O2 🡪 \_\_\_\_ CO2 + \_\_\_\_ H2O

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_ PbSO4 🡪 \_\_\_\_ PbSO3 + \_\_\_\_ O2

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_ NH3 + \_\_\_\_ I2 🡪 \_\_\_\_ N2I6 + \_\_\_\_ H2

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_